



**In the United States Patent and Trademark Office**

Serial Number: 10/035,684  
Appn. Filed: November 1, 2001  
Applicant(s): Eric Karplus, Richard Farrell, Kanai Shah  
Appn. Title: Position Sensitive Solid State Detector with Internal Gain  
Examiner/GAU: \_\_\_\_\_

Friday, March 15, 2002  
East Falmouth, MA

**Response to Formalities Letter  
Confirmation No. 4600**

The abstract for this application is as follows:

**POSITION SENSITIVE SOLID STATE DETECTOR WITH INTERNAL GAIN**

The present invention is a solid state detector that has internal gain and incorporates a special readout technique to determine the input position at which a detected signal originated without introducing any dead space to the active area of the device. In a preferred embodiment of the invention, the detector is a silicon avalanche photodiode that provides a two dimensional position sensitive readout for each event that is detected.

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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/035,684	11/01/2001	Eric Karplus	

CONFIRMATION NO. 4600

FORMALITIES LETTER



\*OC000000007480173\*

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Date Mailed: 02/14/2002

NOTICE TO FILE CORRECTED APPLICATION PAPERS

*Filing Date Granted*

2003 FEB 14 4 33 PM '02  
This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a)

The required item(s) identified below must be timely submitted to avoid abandonment:

- An abstract was not provided for this application. An abstract of the technical disclosure is required under 37 CFR 1.72(b).

*A copy of this notice MUST be returned with the reply.*

Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE